

# Computer Specifications.

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## IMPORTANT NOTES :

- **Windows 10 versions**  
[Windows 10 May 2020 \(2004\)](#) : Currently not compatible for MassCore systems. Under test for Native systems.  
[Windows 10 November 2019 \(1909\)](#) : Pyramix 12.0.5 - Ovation - VCube 8.1.5 and above required. Previous versions will not work.  
[Windows 10 May 2019 \(1903\)](#) : Pyramix 12.0.5 - Ovation - VCube 8.1.5 and above required. Previous versions will not work.  
 For previous Windows 10 versions, please see the [Supported Operating Systems](#) page for details.
- **Windows 8/8.1**  
 Windows 8/8.1 is not compatible.
- **Windows Updates**  
[Merging highly recommends you defer Windows updates](#), [See here for details on how to defer updates](#)
- **CPUs**  
 Since Pyramix v12/ Ovation v8, CPUs prior to 4th generation Intel Core Processors (i5 or i7 4XXX) are no longer supported. The applications will not launch on previous CPU generation.



- **MASSCORE USERS:**  
[Meltdown & Spectre](#) Windows updates are currently only compatible with Pyramix 11.0.6/Ovation 7.0.6 in MassCore mode. If you have installed such update, please upgrade your Pyramix /Ovation (or uninstall this update, [please see this page for further details](#))  
[Zombieload](#) Windows updates are currently only compatible with Pyramix 11.1.6/Ovation 7.1.6 in MassCore mode. If you have installed such update, please upgrade your Pyramix /Ovation (or uninstall this update, [please see this page for further details](#))

## PYRAMIX 25th / OVATION 9 / VCUBE 9 - VALIDATED HARDWARE COMBINATIONS

### MassCore Systems

Motherboard	BIOS	CPU	RAM Type	Minimum RAM	Graphic Card	Windows OS	Pyramix MassCore	Ovation MassCore	VCube LE/XE /SE
Asrock <a href="#">Z490M Pro4</a> **	1.60	i5-10400 (2.9GHz) i7-10700 (2.9GHz) i9-10900 (2.8GHz)	DDR4	8 GB	NVidia GT1030 /730 NVidia Quadro P620	Windows 10 X64**	Elements / Pro / Premium	Elements / Pro / Premium	1080 / 4k
Asrock <a href="#">Z490 Pro4</a> **	1.50	i5-10400 (2.9GHz) i7-10700 (2.9GHz) i9-10900 (2.8GHz)	DDR4	8 GB	NVidia GT1030 /730 NVidia Quadro P620	Windows 10 X64**	Elements / Pro / Premium	Elements / Pro / Premium	1080 / 4k
Asrock <a href="#">Z390MPro4</a> **	4.10	i5-8400(2.8GHz) i5-9400/9400F(2.9 GHz) i7-8700(3.2GHz) i7-9700/9700F(3.0 GHz)	DDR4	8 GB	NVidia GT1030 /730 NVidia Quadro P620	Windows 10 X64**	Elements / Pro / Premium	Elements / Pro / Premium	1080 / 4k
Asrock <a href="#">Z390Pro4</a> **	4.20	i5-8400(2.8GHz) i5-9400/9400F(2.9 GHz) i7-8700(3.2GHz) i7-8700k(3.7GHz) i7-9700/9700F(3.0 GHz) i7-9700K(3.6GHz) i9-9900k(3.6GHz)	DDR4	8 GB	NVidia GT1030 /730 NVidia Quadro P620	Windows 10 X64**	Elements / Pro / Premium	Elements / Pro / Premium	1080 / 4k

Asrock <b>Z370MPro4 **</b>	3.10	i5-9400/9400F(2.9 GHz) i7-8700(3.2GHz)	DDR4	8 GB	NVidia GT1030 /730 NVidia Quadro P620	Windows 10 X64**	Elements / Pro / Premium	Elements / Pro / Premium	1080 / 4k
Asrock <b>Z370 Pro4 **</b>	3.10	i5-9400/9400F(2.9 GHz) i7-8700(3.2GHz) i7-8700k(3.7GHz) i7-9700/9700F(3.0 GHz) i7-9700K(3.6GHz)	DDR4	8 GB	NVidia GT1030 /730 NVidia Quadro P620	Windows 10 X64**	Elements / Pro / Premium	Elements / Pro / Premium	1080 / 4k

\* Pyramix 10.1 or above required \*\* Pyramix 11 or above required for Windows 10

Installation guides are available [Validated hardware installation guides](#)

## Native Systems

Motherboard	BIOS	CPU	RAM Type	Minimum RAM	Graphic Card	Windows OS	Pyramix Native	Ovation Native	VCube LE/XE /SE
Asrock <b>Z490M Pro4 **</b>	1.60	i5-10400 (2.9 GHz) i7-10700 (2.9 GHz) i9-10900 (2.8 GHz)	DDR4	8 GB	NVidia GT1030 /730 NVidia Quadro P620	Windows 10 X64**	Elements / Pro / Premium	Elements / Pro / Premium	1080 / 4k
Asrock <b>Z490 Pro4 **</b>	1.50	i5-10400 (2.9 GHz) i7-10700 (2.9 GHz) i9-10900 (2.8 GHz)	DDR4	8 GB	NVidia GT1030 /730 NVidia Quadro P620	Windows 10 X64**	Elements / Pro / Premium	Elements / Pro / Premium	1080 / 4k
Asrock <b>Z390MPro4 **</b>	4.10	i5-8400(2.8GHz) i5-9400(2.9GHz) i7-8700(3.2GHz) i7-9700(3.0GHz)	DDR4	8 GB	ATI FirePro NVidia GT1030 /730 NVidia Quadro P620	Windows 10 X64**	Elements / Pro / Premium	Elements / Pro / Premium	1080 / 4k
Asrock <b>Z390Pro4 **</b>	4.20	i5-8400(2.8GHz) i5-9400(2.9GHz) i7-8700(3.2GHz) i7-8700k(3.7 GHz) i7-9700K(3.6 GHz) i9-9900k(3.6 GHz)	DDR4	8 GB	ATI FirePro NVidia GT1030 /730 NVidia Quadro P620	Windows 10 X64**	Elements / Pro / Premium	Elements / Pro / Premium	1080 / 4k
Asrock <b>Z370MPro4 **</b>	3.10	i5-9400(2.9GHz) i7-8700(3.2GHz)	DDR4	8 GB	ATI FirePro NVidia GT1030 /730 NVidia Quadro P620	Windows 10 X64**	Elements / Pro / Premium	Elements / Pro / Premium	1080 / 4k
Asrock <b>Z370 Pro4 **</b>	3.10	i5-9400(2.9GHz) i7-8700k(3.7 GHz) i7-9700K(3.6 GHz)	DDR4	8 GB	ATI FirePro NVidia GT1030 /730 NVidia Quadro P620	Windows 10 X64**	Elements / Pro / Premium	Elements / Pro / Premium	1080 / 4k

\*\* Pyramix 11 or above required for Windows 10

Installation guides are available [Validated hardware installation guides](#)

## Additional Notes

- Windows Operating System : Latest MassCore engine (Pyramix 11.x & Ovation 7.x) required for Windows 10 compatibility [Not compatible with Windows 8.1.](#)  
See the [Supported Operating Systems](#) page for further details.
- Since PMX V11/ Ovation V7, MassCore users running a [RAID configuration](#) must use a dedicated RTX dongle (SSK-HUD-RTX) to authorize MassCore.  
This issue only affects the system (Windows ) RAID drives, if you have RAID Data drives, a dedicated dongle is not required.
- MassCore 10.1 (or above) engine required for Intel Skylake (or above) CPU compatibility
- Since Pyramix v11, a dedicated garphic card is recommended, especially for Video in Timeline features or PyraCube computers.
- Pyramix Video in Timeline features require a dedicated graphic card, see below for specific model details.
- Only 1 video is recommended in DXD or DSD Projects
- In Native – RAVENNA ASIO Driver : 256 samples buffer size recommended when playback video in Pyramix Timeline.
- Laptop users must set their Windows Power Scheme to High Performance (or Ultimate Performance since Windows 10 Spring Creator)
- Windows 7 users should not be running the Windows Classic theme. Follow the recommended Visual Effects settings in our [Windows 7 configuration guide](#).
- **Important Note:** Nvidia graphic cards are SUPPORTED for MassCore use since Pyramix 11 / Ovation 7 / VCube 7, but not with previous versions (ATI recommended in that case)

## Accessory Hardware(as of Pyramix 12)

### Graphic cards

NVidia Graphic Cards tested (as of Pyramix 12)

- GT730 (Fanless - 2 Displays)
- GTX750 (2 Displays)
- GT1030 (Fanless - 2 Displays)
- Quadro P620 (4 Displays- mini DP)

ATI Fire Pro Cards Tested (Legacy)

- FirePro 2270 (Legacy) (2 Displays)
- FirePro 2460 (4 Displays - mini DP)
- FirePro W4100 (4 Displays - [Windows 10 performance issues on MassCore platform - only use such graphic card with Windows 7 SP1.](#))

See the [Graphic cards recommendations](#) page for details.

### Video Cards

Validated Video Cards for Pyramix Video in Timeline (as of Pyramix 12)

- Black Magic Design Decklink MiniMonitor\*
- Black Magic Design Decklink SDI 4K\*\*
- Black Magic Design Decklink Studio 4K\*\*

VCube Validated Video Cards

- AJA KONA Lhi(Windows 7 only)
- Black Magic Design Decklink MiniMonitor (PyraCube Only\*\*\*)
- Black Magic Design Decklink MiniRecorder
- Black Magic Design Decklink SDI 4K
- Black Magic Design Decklink Studio 4K

\* The DeckLink MiniMonitor has no Video reference to ensure genlock, if in use drifting over time is a possibility.

\*\* For Pyramix or PyraCube (both on the same system) Merging recommends the Decklink SDI 4K or Decklink Studio 4K to ensure genlock and sample accuracy (Masscore/Video Ref) or frame accuracy (Native/Audio & Video Ref).

\*\*\* Video reference not available so not appropriate for standalone VCube systems.

## Additional Minimum Requirements

- Display resolution minimum 1280 x 1024 / 1920 x 1080 recommended
- SATA 2 / SATA 3 / RAID HD for Audio Storage
- 3 button mouse
- SATA or SSD System Hard Disk

## Optical Drives Recommendations

As of today, all drives conforming to MMC standard should work with DiscWrite / Pyramix. This represents about 99.99% of all currently manufactured optical units. We currently recommend TEAC DV-W5600 range of burners.

## Legacy Hardware/Software Recommendations

For information on pc configurations for legacy software, [please see the Legacy Hardware page](#)